

Title (en)
TYMPANIC MEMBRANE PRESSURE EQUALIZATION TUBE DELIVERY SYSTEM

Title (de)
SYSTEM ZUR FREISETZUNG EINER TROMMELFELLDROCKAUSGLEICHSRÖHRE

Title (fr)
SYSTÈME DE DISTRIBUTION DE TUBE D'ÉGALISATION DE PRESSION À MEMBRANE TYMPANIQUE

Publication
EP 3649995 A1 20200513 (EN)

Application
EP 19192949 A 20100715

Priority
• US 22589309 P 20090715
• EP 17209149 A 20100715
• EP 13173409 A 20100715
• EP 10735391 A 20100715
• US 2010042128 W 20100715

Abstract (en)
Systems are provided for automatically forming an incision in a tympanic membrane of an ear and placing a tympanic membrane pressure equalization tube into the incision. The systems include a housing with a shaft extending therefrom. A mechanism is disposed within the housing. A distal end of the shaft is placed against a tympanic membrane, and the mechanism is triggered to cause the tympanic membrane to be automatically incised and dilated and a tympanic membrane pressure equalization tube to be placed in the dilated incision, wherein the system includes a cutting dilator (400) at its distal end, rather than including a separate cutter and dilator.

IPC 8 full level
A61F 11/00 (2006.01); **A61B 17/34** (2006.01); **A61B 17/3209** (2006.01)

CPC (source: EP KR US)
A61B 17/34 (2013.01 - KR); **A61B 17/3468** (2013.01 - EP KR US); **A61F 11/202** (2022.01 - EP KR US); **A61B 2017/00787** (2013.01 - KR)

Citation (applicant)
• US 22589309 P 20090715
• US 74973310 A 20100330

Citation (search report)
• [X] US 668879 A 19010226 - MILLER WILBER L [US]
• [A] US 3913584 A 19751021 - WALCHLE DAVID L, et al
• [A] GB 2437708 A 20071107 - YESHAYAHU KATS [IL], et al

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011008948 A1 20110120; AU 2010273372 A1 20120202; AU 2010273372 B2 20151001; BR 112012001039 A2 20190924; CA 2768009 A1 20110120; CA 2768009 C 20190122; CA 3018367 A1 20110120; CN 102510746 A 20120620; CN 102510746 B 20140820; DK 2649972 T3 20180122; DK 3329888 T3 20190923; EP 2453855 A1 20120523; EP 2453855 B1 20130626; EP 2649972 A1 20131016; EP 2649972 B1 20171227; EP 3329888 A1 20180606; EP 3329888 B1 20190828; EP 3649995 A1 20200513; ES 2428041 T3 20131105; IN 333DEN2012 A 20150821; JP 2012533359 A 20121227; JP 5596142 B2 20140924; KR 101763657 B1 20170801; KR 20120037480 A 20120419; MX 2012000691 A 20120316; RU 2012105314 A 20130820; RU 2543856 C2 20150310; US 2011015645 A1 20110120; US 8864774 B2 20141021

DOCDB simple family (application)
US 2010042128 W 20100715; AU 2010273372 A 20100715; BR 112012001039 A 20100715; CA 2768009 A 20100715; CA 3018367 A 20100715; CN 201080041755 A 20100715; DK 13173409 T 20100715; DK 17209149 T 20100715; EP 10735391 A 20100715; EP 13173409 A 20100715; EP 17209149 A 20100715; EP 19192949 A 20100715; ES 10735391 T 20100715; IN 333DEN2012 A 20120112; JP 2012520778 A 20100715; KR 20127003590 A 20100715; MX 2012000691 A 20100715; RU 2012105314 A 20100715; US 83665410 A 20100715